



(TM)

Release 3.1A John F. Collins, Biocomputing Research Unit.
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Run on: Sat May 13 11:04:12 2000; Maspar time 3.92 Seconds
254.055 Million cell updates/sec

Tabular output not generated.

Title: >US-09-331-631-8
Description: (120-161) from US09331631.ppt (4 of 4)
Perfect Score: 344
Sequence: 1 SORQFOECQCHQOEPKQOCVRECKRYQENPMRGR 42

Scoring table: PAM 150
Gap 11

Searched: 188963 seqs, 23686106 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a:geneseg35
1:geneseg3p

Statistics: Mean 23.518; Variance 86.543; scale 0.272

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description	Pred. No.
1	344	100.0	590	1 W62832	Gossypium hirsutum ant	8.96e-28
2	168	48.8	525	1 W62831	Theobroma cacao antim	1.19e-08
3	168	48.8	566	1 R20181	Sequence encoded by 67	1.19e-08
4	128	37.2	666	1 W62829	Macadamia integrifolia	1.50e-04
5	127	36.9	666	1 W62829	Macadamia integrifolia	1.89e-04
6	120	34.9	625	1 W62830	Macadamia integrifolia	9.40e-04
7	104	30.2	637	1 W62837	Hordeum vulgare antim	3.46e-02
8	96	27.9	28	1 W62841	Stenocarpus sinuatus a	2.01e-01
9	94	27.3	444	1 W90340	G. max truncated SBP1	3.11e-01
10	94	27.3	524	1 W90339	G. max SBP1 protein.	3.11e-01
11	93	27.0	35	1 R21079	Antimicrobial maize pe	3.86e-01
12	89	25.9	1211	1 W47028	Human N-proteinase (13	9.13e-01
13	88	25.6	33	1 W62836	Zea mays antimicrobial	1.13e+00
14	88	25.6	593	1 W62835	Zea mays antimicrobial	1.13e+00
15	84	24.4	385	1 W03474	Mouse SRI-related prot	2.64e+00
16	81	23.5	409	1 W90342	G. max truncated SBP2	4.95e+00
17	81	23.5	489	1 W90341	G. max SBP2 protein.	4.95e+00
18	79	23.0	276	1 P91657	Long overlapping open r	7.51e+00
19	79	23.0	277	1 P91656	Long overlapping open r	7.51e+00
20	78	22.7	1206	1 W47030	Bovine N-proteinase.	9.23e+00
21	76	22.1	354	1 W73310	Cellulose synthase Pcs	1.39e+01
22	76	22.1	816	1 R71111	Spinocerebellar ataxia	1.39e+01
23	75	21.8	303	1 Y07101	Colon cancer associate	1.71e+01

24	75	21.8	369	1 W62647	Mature durum wheat glu	1.71e+01
25	75	21.8	1290	1 Y06809	Human per gene product	1.71e+01
26	75	21.8	1291	1 Y01687	Protein encoded by the	1.71e+01
27	74	21.5	371	1 W73369	Epitope tagged TBP pro	2.09e+01
28	74	21.5	737	1 R76640	Deltex protein.	2.09e+01
29	74	21.5	737	1 W16317	Drosophila Deltex prot	2.09e+01
30	74	21.5	737	1 R76639	Deltex protein produce	2.09e+01
31	74	21.5	781	1 W64695	Mouse ADNF-III protein	2.09e+01
32	74	21.5	787	1 W64694	Human ADNF-III protein	2.09e+01
33	74	21.5	800	1 W64703	Seq ID 41 from W098350	2.09e+01
34	74	21.5	806	1 W64675	Mouse ADNF-III protein	2.09e+01
35	74	21.5	1000	1 W64674	Human ADNF-III protein	2.09e+01
36	73	21.2	850	1 W94901	Mouse pheromone recept	2.57e+01
37	73	21.2	3163	1 R94347	Hepatitis GB virus (HG	2.57e+01
38	72	20.9	55	1 W95077	GST-HD fusion protein	3.14e+01
39	72	20.9	63	1 W95079	GST-HD fusion protein	3.14e+01
40	72	20.9	86	1 W95078	GST-HD fusion protein	3.14e+01
41	72	20.9	86	1 W95073	GST-HD fusion protein	3.14e+01
42	72	20.9	94	1 W95080	GST-HD fusion protein	3.14e+01
43	72	20.9	140	1 P91891	Part of the sequence o	3.14e+01
44	72	20.9	438	1 W59836	Maize id protein.	3.14e+01
45	72	20.9	3144	1 W09871	Human huntingtin.	3.14e+01

ALIGNMENTS

RESULT 1
ID W62832 standard; Protein: 590 AA.
AC W62832.
DE 27-OCT-1998 (first entry)
KW Gossypium hirsutum antimicrobial protein.
OS antimicrobial protein; infestation; control.
PN Gossypium hirsutum.
PD W09827805-A1.
PF 02-JUL-1998.
PE 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP.
DR WPI: 98-377279/32.
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PS Claim 1; Page 49-51; 96pp; English.
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
SQ Sequence 590 AA:

Query Match 100.0%; Score 344; DB 1; Length 590;
Best Local Similarity 100.0%; Pred. No. 8.96e-28;
Matches 42; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 120 SORQFOECQCHQOEPKQOCVRECKRYQENPMRGR 161
QY 120 SORQFOECQCHQOEPKQOCVRECKRYQENPMRGR 161

RESULT 2
ID W62831 standard; Protein: 525 AA.
AC W62831.
DE 27-OCT-1998 (first entry)
KW Theobroma cacao antimicrobial protein.
OS antimicrobial protein; infestation; control.
PN Theobroma cacao.
PD W09827805-A1.
PF 02-JUL-1998.
PE 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP.
DR WPI: 98-377279/32.
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